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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/665,366	09/22/2003	Takehiro Matsuda	040894-5959	4898
9629	7590	03/08/2005	EXAMINER	
MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004			DAVIS, DAVID DONALD	
			ART UNIT	PAPER NUMBER
			2652	

DATE MAILED: 03/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 10/665,366	Applicant(s) MATSUDA, TAKEHIRO	
	Examiner David D. Davis	Art Unit 2652	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |  |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>02/25/04</u> . | 6) <input type="checkbox"/> Other: ____  |

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## DETAILED ACTION

### *Priority*

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### *Information Disclosure Statement*

2. Receipt is acknowledged of the Information Disclosure Statement (IDS) received February 25, 2004.

### *Claim Rejections - 35 USC § 102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Takashima (US 4,643,522). As per claim 1, Takashima shows in figure 4, for example, an optical pickup apparatus including an object lens 26 arranged to be opposed to an optical disk; a bobbin 22 configured to support the object lens 26 and an elastic member 25 configured to support the bobbin 22 in a suspending manner.

Also shown in figure 4 is a fixing section 22a, 22b, 22c & 22d attached to one end of the elastic member 25A -25D and a pair of coil 28A, 28B, 29A & 29B disposed on the bobbin 22. Each of the coils are disposed at 180 degrees symmetric position with respect to a centroid of a

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placement face of the object lens 26 in the bobbin 22, and wherein each of the coils are disposed is disposed in a different plane.

As per claim 2, figure 4 of Takashima shows the elastic member 25 includes four or more longitudinal elastic members. As per claim 3, the pair of coil includes a plurality of pairs of coil. As per claim 4, Takashima also shows in figure 4 electric power such that the temperature and the heat flow rate at the point at which the line connecting an optical axis of the object lens 26 and a center of one of the coils crosses the outer margin of the object lens 26 become equal to those at the point at which the line connecting the optical axis of the object lens 26 and the center of another coil crosses the outer margin of the object lens 26.

As per claim 5, Takashima shows in figure 4 a symmetrical axis of the pair of coil matches an optical axis of the object lens 26. As per claim 6, figure 4 of Takashima shows each of the coils of the pair are spaced from each other at the same distance with respect to an optical axis of the object lens 26. As per claim 7, Takashima discloses in column 3, lines 39-56 and column 4, lines 11-20 that the pair of coils include either a pair of focus coil or a pair of tracking coil. As per claim 8, Takashima shows in figure 4 that each of the coils of the pair are connected in series.

As per claim 9, Takashima shows in figure 4 that the bobbin 22 includes four or more even numbers of side surfaces with the plurality of pairs of coil including either a pair of focus coil or a pair of tracking coil. See column 3, lines 39-56 and column 4, lines 11-20. The plurality of pairs of coil are arranged in a manner that each of the focus coil and the tracking coil are disposed alternately on each of the side surfaces. As per claim 10, Takashima discloses in

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column 3, lines 39-56 and column 4, lines 11-35 that a first drive current is provided to either of the focus coils and the tracking coils, and a second drive current is provided to the other of the focus coils and the tracking coils. During the time first drive current is provided a predetermined current is added to the second drive current.

As per claim 11, Takashima shows in figure 4 an optical pickup apparatus having an object lens 26 arranged to be opposed to an optical disk and a bobbin 22 configured to support the object lens 26. Figure 4 also shows a first coil 28A and a second coil 29A disposed on a first side surface of the bobbin 22 and a third coil 28B and a fourth coil 29B disposed on a second side surface, which is opposed to the first side surface, of the bobbin 22. The first coil 28A and the third coil 28B are disposed at a position being symmetric with respect to an optical axis of the object lens 26 and are electrically connected to each other. The second coil 29A and the fourth coil 29B are disposed at a position being symmetric with respect to an optical axis of the object lens 26 and are electrically connected to each other.

As per claim 12, Takashima shows in figure 4 the first coil 28A and the third coil 28B each including either of a focus coil or a tracking coil. The second coil 29A and the fourth coil 29B each include the other of the focus coil or the tracking coil. See column 3, lines 39-56 and column 4, lines 11-20. As per claim 13, Takashima discloses in column 3, lines 39-56 and column 4, lines 11-35 a first drive current provided to either of the focus coils and the tracking coils, and a second drive current is provided to the other of the focus coils and the tracking coils. During the time the first drive current is provided a predetermined current is added to the second drive current. As per claim 14, Takashima shows in figure 4 elastic member 25 configured to

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support the bobbin 22 in a suspending manner and a fixing section 22a, 22b, 22c & 22d attached to one end of the elastic member 25.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David D. Davis whose telephone number is (703) 308-1503. The examiner can normally be reached on Monday thru Friday between 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa T. Nguyen can be reached on (703) 305-9687. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
David D. Davis  
Primary Examiner  
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